

In re: Asplin
Serial No.: 09/687,445

IN THE CLAIMS

Please amend claims 7 by rewriting as follows:

7. (currently amended) A system for lifting and leveling a slab defining at least one drilled hole said system comprising:

 a sand storage tank having a sand outlet;

 a supply of well dried mason's sand within said sand storage tank;

 a compressed air source in fluid tight connection with said sand outlet;

 a mixing chamber connected to said sand outlet and said compressed air source, said mixing chamber having a smaller air source hose fitted inside of a larger diameter sand outlet such that said smaller air source extends into the center section of said larger diameter sand outlet so as to create a venturi effect;

 an elongate air and sand delivery line connected to said mixing chamber; and

 an injector gun having a gun bleed off valve for releasing excess pressure from said gun and said delivery line and a gun nozzle for the delivery of a sand air mixture said gun nozzle having a threaded end that may be pounded into said drilled hole so as to create a substantially fluid tight connection between said threads and said hole ~~with said drilled hole~~.

8. (canceled)

9. (previously amended) A system for lifting and leveling a slab

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as in claim 7 further comprising a compressed air bleed valve between said compressed air source and sand outlet.

10. (original) A system for lifting and leveling a slab as in claim 9 further comprising a sand shutoff valve between said sand storage tank and said mixing chamber.

11. (original) A system for lifting and leveling a slab as in claim 10 wherein said compressed air source is a high volume air compressor.

12. (previously amended) A method of lifting and leveling a slab said method comprising the steps of:

supplying a sand storage tank filled with a well dried mason's sand said storage tank having a sand outlet;

supplying a compressed air source in fluid tight connection with said sand outlet;

mixing said sand and said compressed air in a mixing chamber;

delivering said sand and air mixture to an injector gun via an elongate fluid tight hose said gun further having a gun nozzle;

drilling a hole and said slab to be leveled;

attaching said gun nozzle to said drilled hole;

operating said injector gun in bursts so as to provide compressed air and sand; and

lifting said slab by said bursts of compressed air such that said slab is lifted in bursts such that said sand can flow under said slab permanently filling under said slab and raising said slab to a new level.

13. (original) A method of lifting and leveling a slab as in claim 12 further comprising the step of supplying a compressed air bleed valve between said compressed air source and sand outlet.

14. (original) A method of lifting and leveling a slab as in claim 13 further comprising the step of operating said compressed air bleed valve to release excess pressure.

15. (original) A method of lifting and leveling a slab as in claim 14 further comprising the step of supplying a sand shutoff valve between said sand storage tank and said mixing chamber.

16. (original) A method of lifting and leveling a slab as in claim 15 further comprising the step of adjusting said sand shutoff valve so as to control the flow of sand to said mixing chamber.

17. (previously amended) A method of lifting and leveling a slab said method comprising the steps of:

drilling a strategically placed hole in said slab;
supplying a sand storage tank filled with sand said storage tank having a sand outlet;

supplying a compressed air source in fluid tight connection with said sand outlet;

mixing said sand and said compressed air in a mixing chamber said mixing chamber having a smaller air source hose fitted inside of a larger diameter sand outlet such that said smaller air source extends into the center section of said larger diameter sand outlet so as to create a venturi effect;

delivering said sand and air mixture to an injector gun via an elongate fluid tight hose said injector gun further having a gun nozzle for connection with said hole;

attaching said gun nozzle to said drilled hole; and

operating said injector gun in short successive bursts so as to provide compressed air sufficient to temporarily lift said slab in short successive bursts said bursts also providing sand that permanently fills under said slab when lifted and raises said slab to a new permanent level.

18. (previously presented) A method of lifting and leveling a slab as in claim 17 further comprising the step of supplying a sand shutoff valve that may be adjusted so as to control the flow of sand to said mixing chamber.

19. (previously presented) A method of lifting and leveling a slab as in claim 18 further comprising the step of drilling a second strategically placed hole in said slab; moving said gun nozzle to said second hole and repeating said operating step.

20. (previously presented) A method do lifting and leveling a slab as in claim 19 further comprising the step of patching said holes to match said slab.

21. (previously presented) A method of lifting and leveling a slab as in claim 20 further comprising the step of supplying a compressed air bleed valve between said compressed air source and sand outlet so as to bleed of excess air.